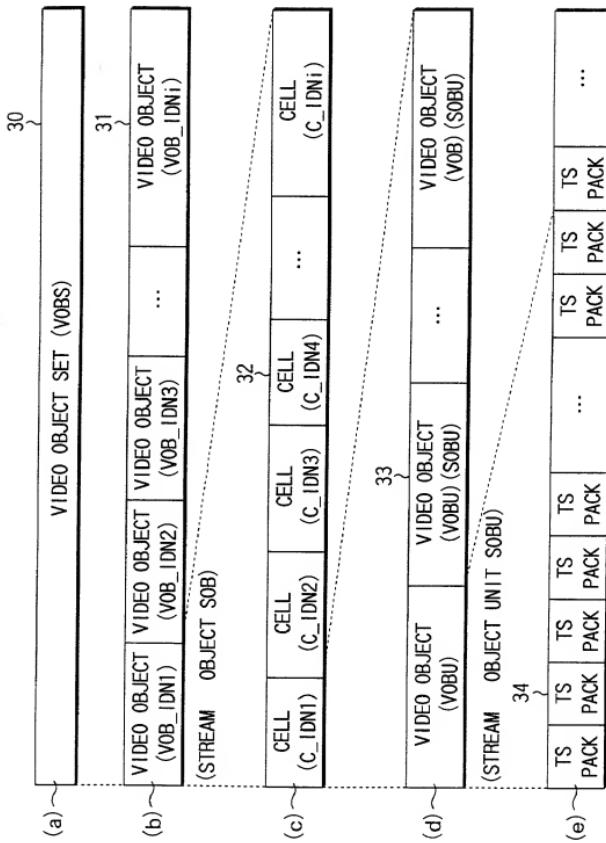


1  
EIG



**FIG. 2**

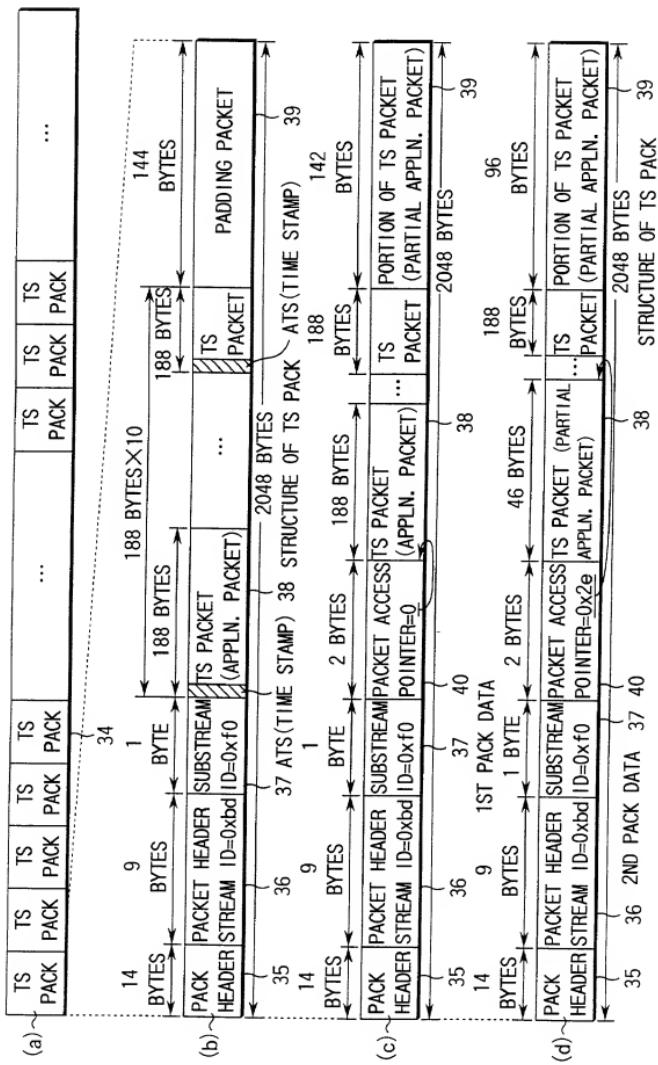


FIG. 3

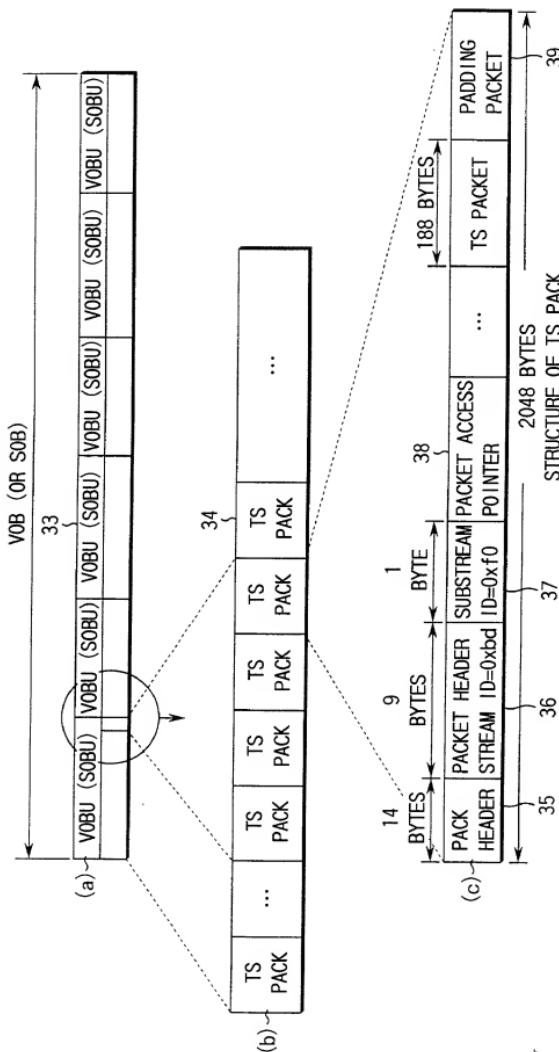


FIG. 4

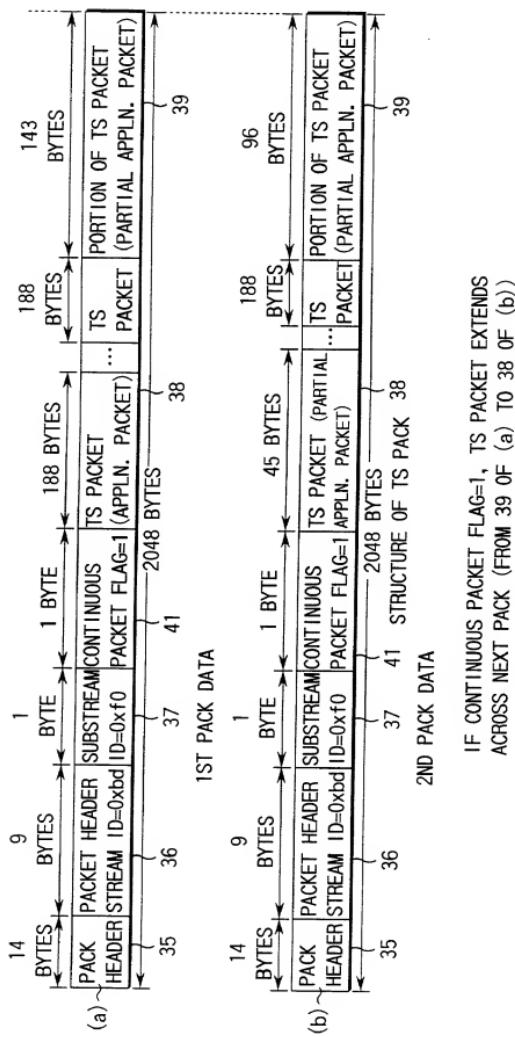


FIG. 5

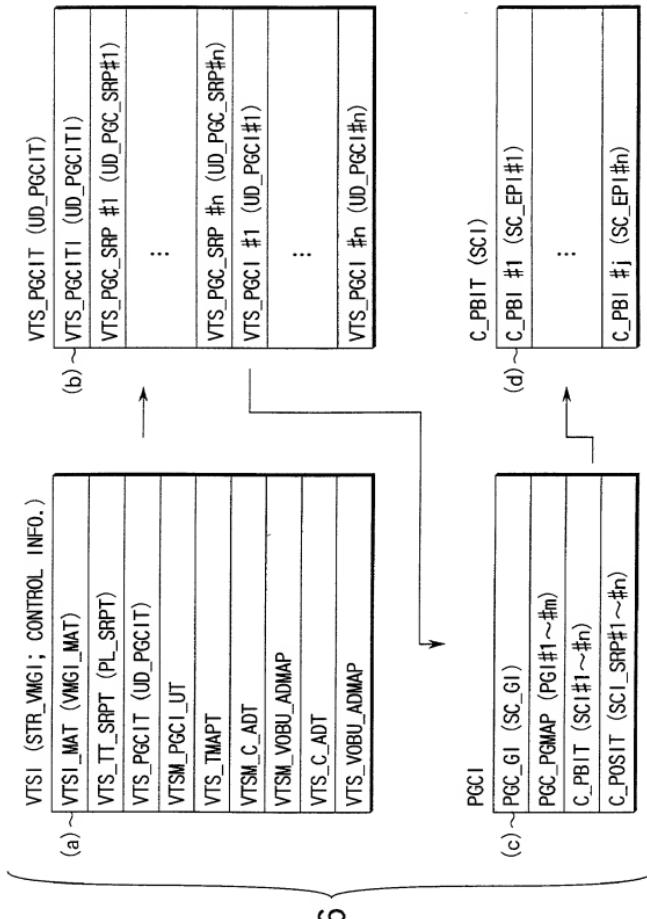


FIG. 6

PGC\_GI (SC\_GI)

CONTENTS	
PGC_CNT	NUMBER OF PROGRAMS, NUMBER OF CELLS
PGC_TRS_TM	RECORDING TIME PER PGC
SUPPORT INFO	SUPPORT INFORMATION (DETAILS ARE LISTED BELOW)
PGC_PGMAP_SA	START ADDRESS OF PROGRAM MAP
C_PBIT_SA	START ADDRESS OF C_PBIT
C_POSIT_SA	START ADDRESS OF C_POSIT
ARCHIVE FLAG (C_TY1 & TE)	ERASE INHIBITION FLAG 0: FREE, 1: SAVE PERMANENTLY
SC_EPI_Ns	NUMBER OF ENTRY POINT INFORMATION
SOB_N	STREAM OBJECT NUMBER
SC_S_APAT	STREAM CELL START APAT
SC_E_APAT	STREAM CELL END APAT
if (TE=='10b') {	
ERA_S_APAT	ERASE START APAT
ERA_E_APAT	ERASE END APAT

b7	b5	b4	b3	b2	b1	b0
(b)	IDENTIFICATION CODE OF STB THAT RECORDED DATA	SCD SUPPORT	PCR SUPPORT	PAT, PMT SUPPORT	UNIT START INDICATOR SUPPORT	RANDOM ACCESS INDICATOR SUPPORT

RANDOM ACCESS INDICATOR SUPPORT FLAG	STB IDENTIFICATION CODE
0b...NOT SUPPORTED, 1b...SUPPORTED	001:STB OF BS DIGITAL BROADCAST 010:Ver2 STB OF DirectTV 011:Ver1 STB OF SKY PERFECT TV
UNIT START INDICATOR SUPPORT FLAG	C_TY1...'10b' SHALL BE DESCRIBED FOR ALL STREAM CELLS
0b...NOT SUPPORTED, 1b...SUPPORTED	TE...'00b':THIS CELL IS IN THE "NORMAL" STATE
PAT, PMT SUPPORT FLAG	'01b':THIS CELL IS IN "TEMPORARILY ERASSED" STATE; AND THIS CELL STARTS AFTER THE FIRST APPLICATION PACKET OF A SOBU AND ENDS BEFORE THE LAST APPLICATION PACKET OF THE SAME SOBU
PCR SUPPORT FLAG	'10b':THIS CELL IS IN "TEMPORARILY ERASSED" STATE; AND THIS CELL CONTAINS AT LEAST ONE SOBU BORDER (FIRST OR LAST APPLICATION PACKET OF A SOBU). ERA_S_APAT AND ERA_E_APAT EXIT FOR THIS CELL
SCD SUPPORT FLAG	
0b...NOT SUPPORTED, 1b...SUPPORTED	
PCR=PRESENTATION CLOCK REFERENCE	
SCD=SPLICE COUNTDOWN	

FIG. 7

**OBLON, SPIVAK, ET AL**  
**DOCKET #:204591US-2S DIV**  
**INV: HIDEO ANDO ET AL**  
**SHEET 8 OF 30**

C_PBI (SCI)	RBP	CONTENTS	NUMBER OF BYTES
0 TO 0	C_CAT (C_TY)	CELL TYPE 02: STREAMER CELL	
1 TO 4	C_ARLTM	STC VALUE OR PCR UPON RECORDING HEAD OF CELL OF INTEREST	
5 TO 8	C_FVOBU_SA	START ADDRESS OF CELL	
9 TO 12	C_LVVOBU_SA	START ADDRESS OF LAST VOBU OF CELL	
13 TO 16	C_LVVOBU_EA	END ADDRESS OF LAST VOBU OF CELL	
17 TO 18	TS PACKET LENGTH	TS PACKET LENGTH: NORMAL: 0xb0	
19 TO 22	REFPIC_NS (AU_Ns)	NUMBER OF I-PICTURES	
23 TO 26	REFPIC_SA_#1 (AUIM)	START ADDRESS OF I-PICTURE #1	
27 TO 30	REFPIC_EA_#1 (AUEM)	END ADDRESS OF I-PICTURE #1	
	:		
23+(n-1)×8	REFPIC_SA_#n (AUIM)	START ADDRESS OF I-PICTURE #n	
27+(n-1)×8	REFPIC_EA_#n (AUEM)	END ADDRESS OF I-PICTURE #n	
		TOTAL	30+ (n-1) × 8
REFPIC_NS: NUMBER OF I-PICTURES ("0" IF NO RANDOM ACCESS INDICATOR IS AVAILABLE)			
AUD	REFPIC_SA#n:	ADDRESS OF TS PACK INCLUDING FIRST TS PACKET OF I-PICTURE #n	
	(TS PACK WITH ACTIVE RANDOM ACCESS INDICATOR)		
REFPIC_EA#n:	ADDRESS OF TS PACK INCLUDING LAST TS PACKET OF I-PICTURE #n		
	(TS PACK WITH ACTIVE UNIT START INDICATOR)		
	("0" IF NO UNIT START INDICATOR IS AVAILABLE)		

FIG. 8

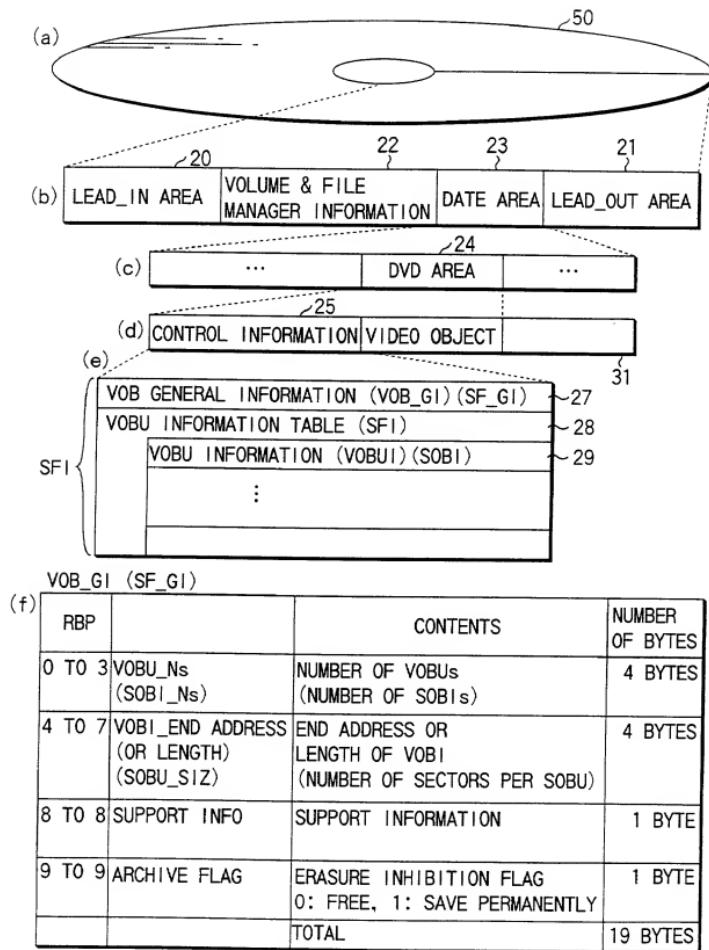


FIG. 9

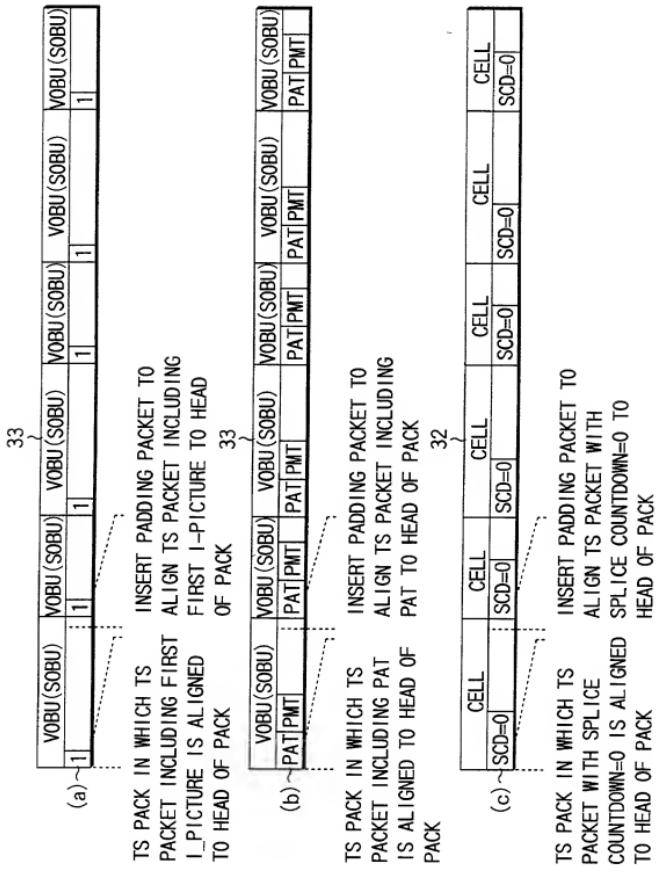
VOBU   (SOBI)	RBP	CONTENTS	NUMBER OF BYTES
0 TO 3	VOBU START ADDRESS	START ADDRESS OF VOBU	
4 TO 7	VOBU END ADDRESS (OR LENGTH)	END ADDRESS OR LENGTH OF VOBU	
8 TO 11	VOBU_RECTM	STC VALUE OR PCR UPON RECORDING HEAD OF VOBU OF INTEREST	
12 TO 13	TS PACKET LENGTH	TS PACKET LENGTH: NORMAL: 0xbc	
14 TO 17	REFPIC_Ns (AU_Ns)	NUMBER OF I-PICTURES	
18 TO 21	REFPIC_SA_#1 (AUSM)	START ADDRESS OF I-PICTURE #1	
22 TO 25	REFPIC_EA_#1 (AUEN)	END ADDRESS OF I-PICTURE #1	
	:		
16+(n-1)×8	REFPIC_SA_#n (AUSM)	START ADDRESS OF I-PICTURE #n	
20+(n-1)×8	REFPIC_EA_#n (AUEN)	END ADDRESS OF I-PICTURE #n	
		TOTAL	25+(n-1)×8

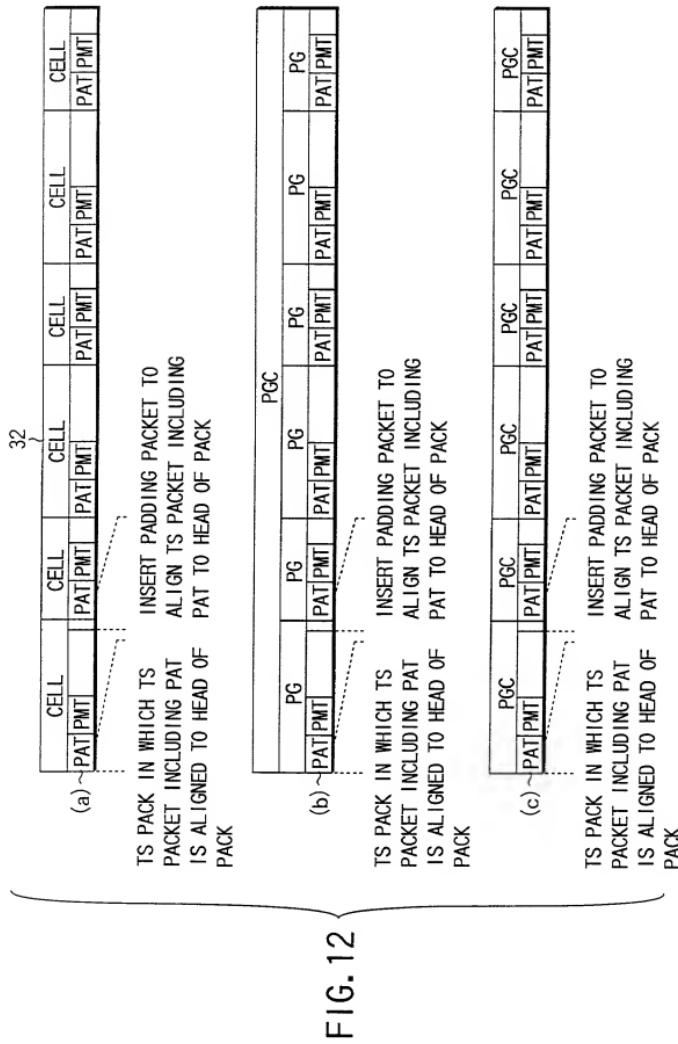
REFPIC\_Ns: NUMBER OF I-PICTURES ("0" IF NO RANDOM ACCESS INDICATOR IS AVAILABLE)

AUD REFPIC\_SA#n: ADDRESS OF TS PACK INCLUDING FIRST TS PACKET OF I-PICTURE #n  
 (TS PACK WITH ACTIVE RANDOM ACCESS INDICATOR)

REFPIC\_EA#n: ADDRESS OF TS PACK INCLUDING LAST TS PACKET OF I-PICTURE #n  
 (TS PACK WITH ACTIVE UNIT START INDICATOR)  
 ("0" IF NO UNIT START INDICATOR IS AVAILABLE)

FIG. 10





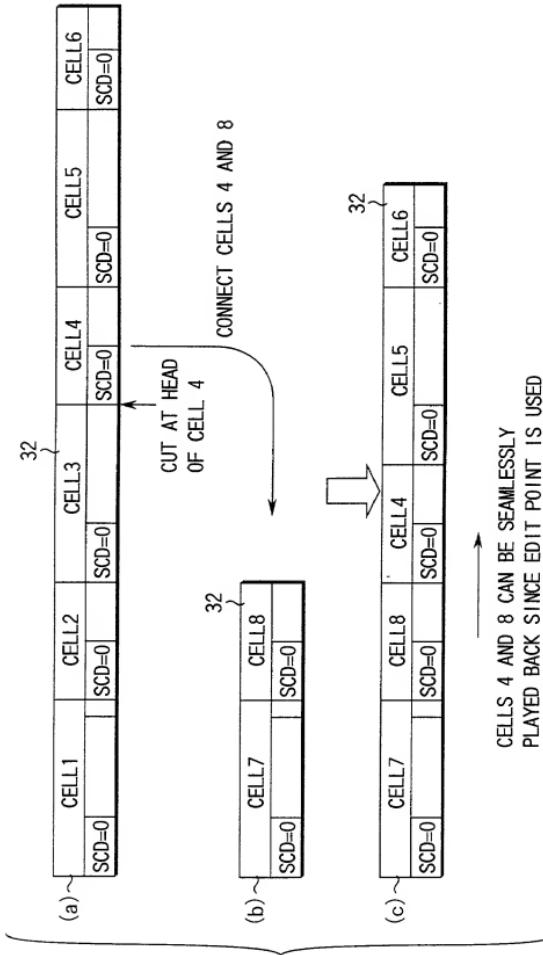


FIG. 13

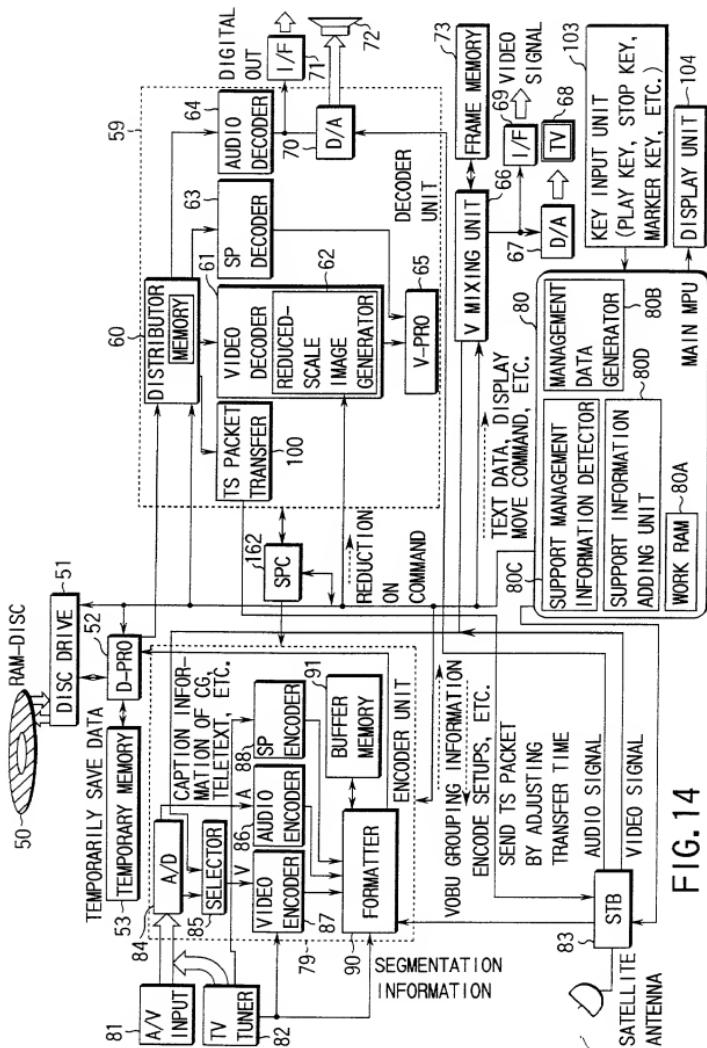


FIG. 14

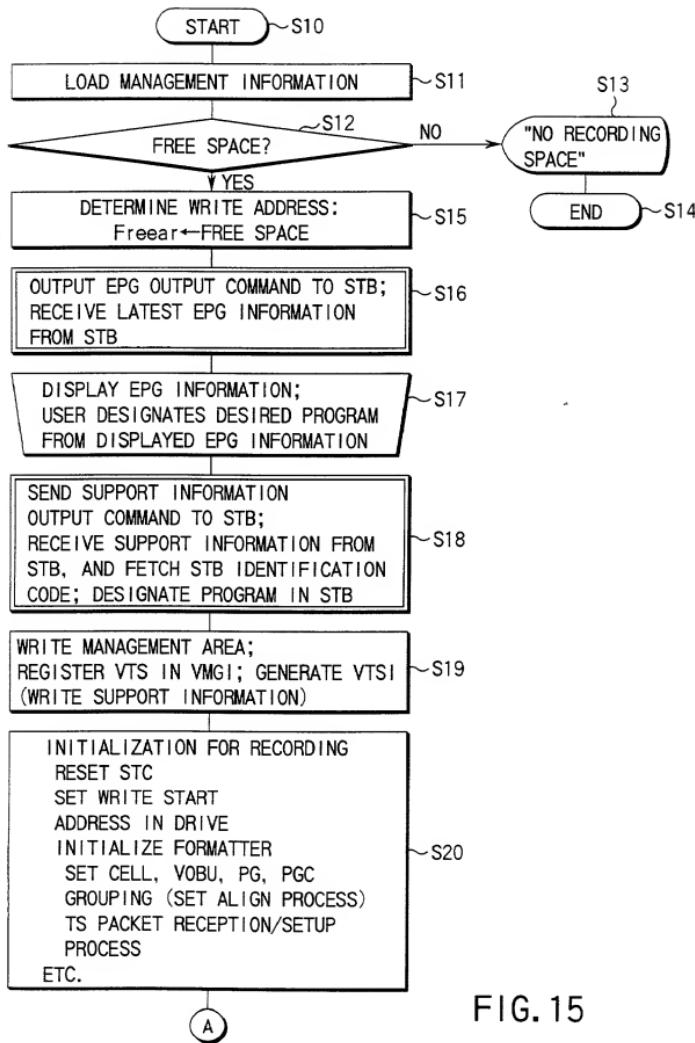


FIG. 15

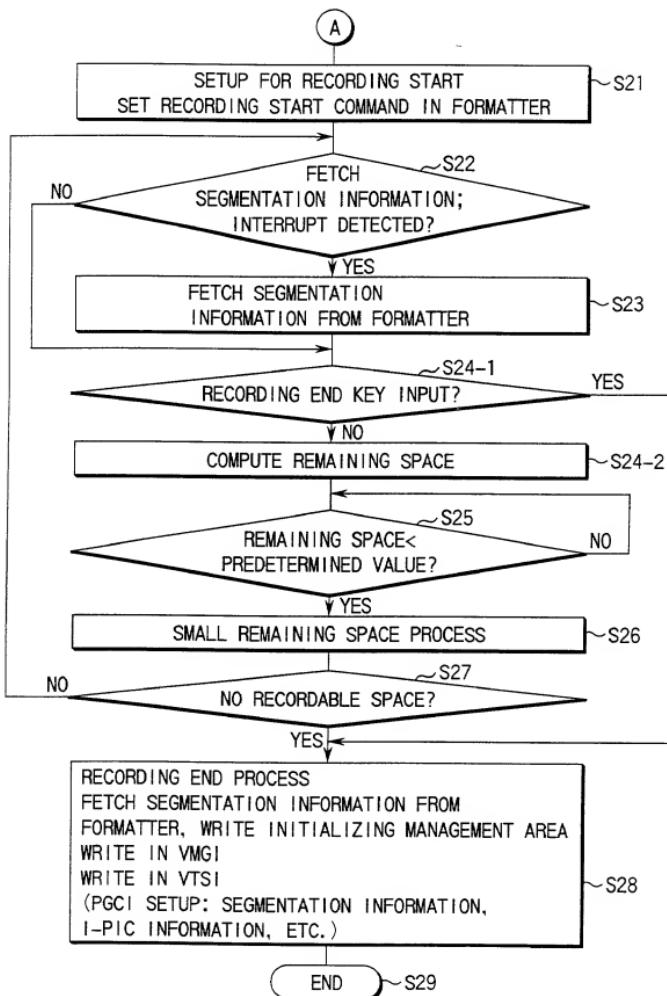


FIG. 16

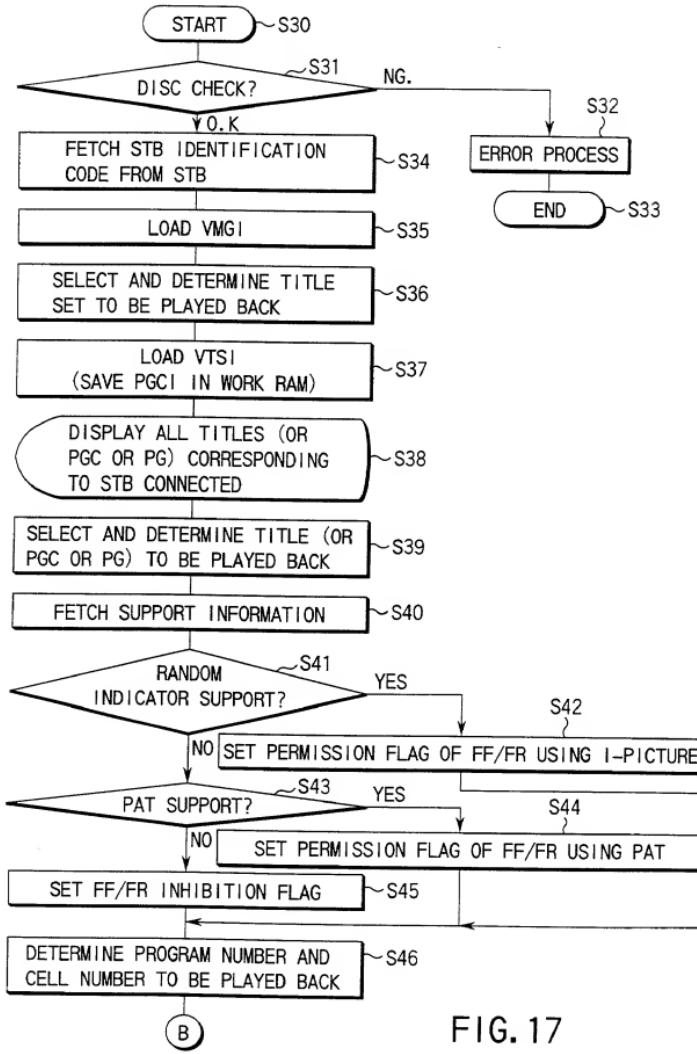


FIG. 17

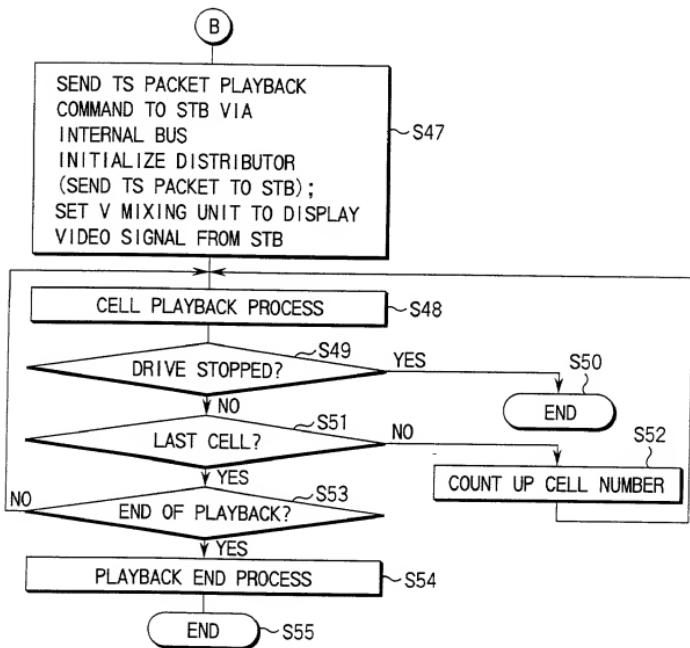


FIG. 18

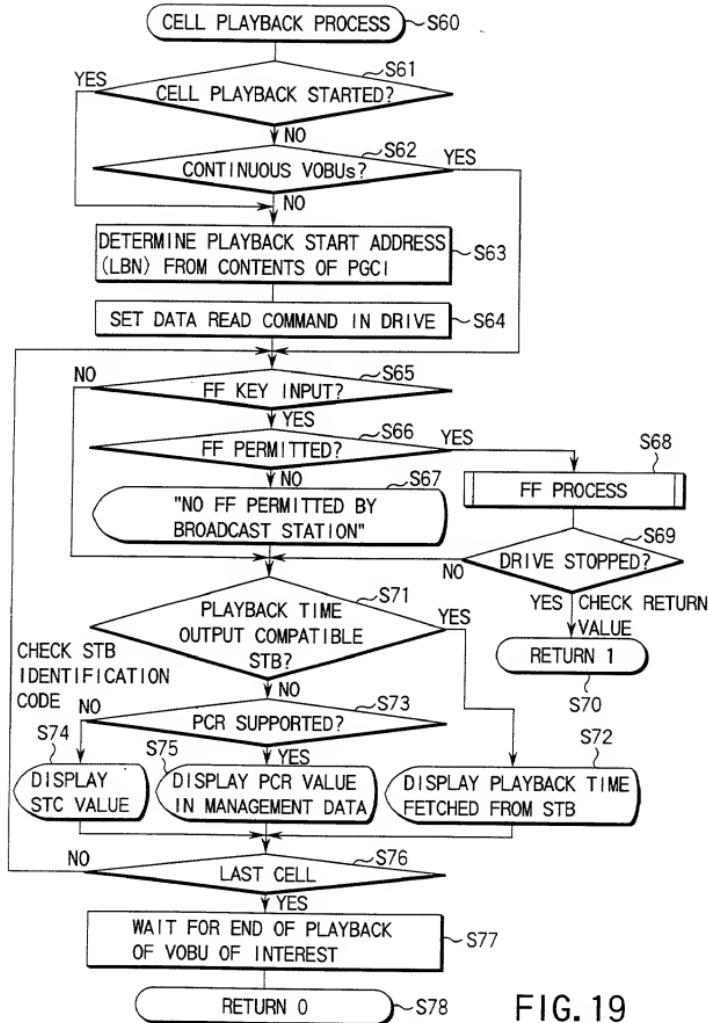


FIG. 19

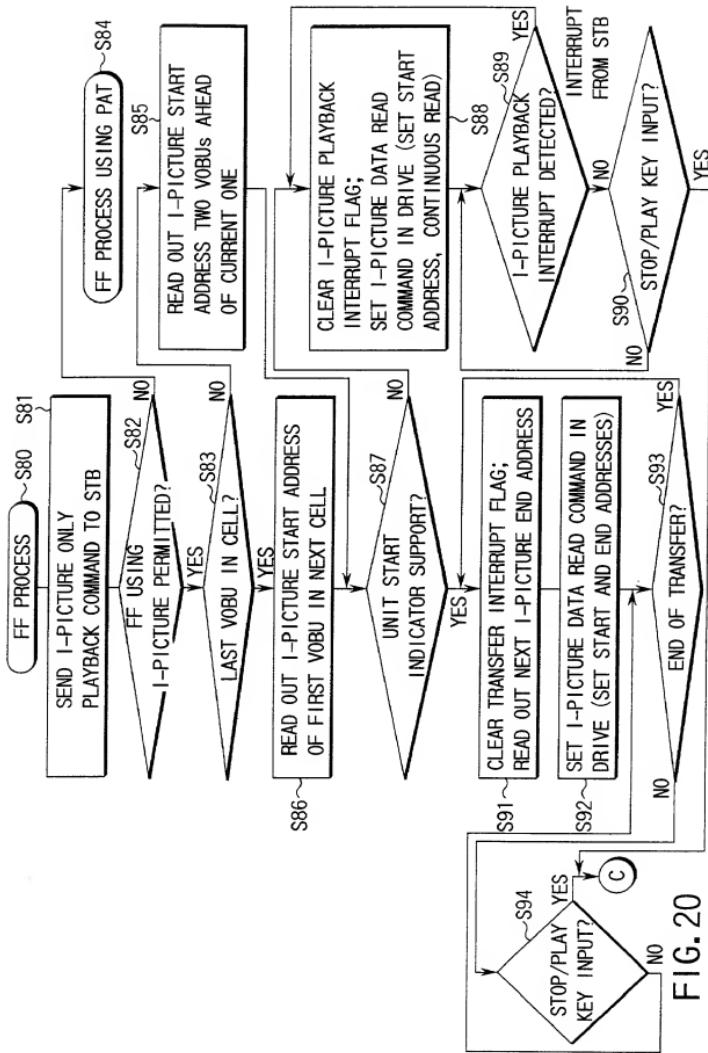


FIG. 20

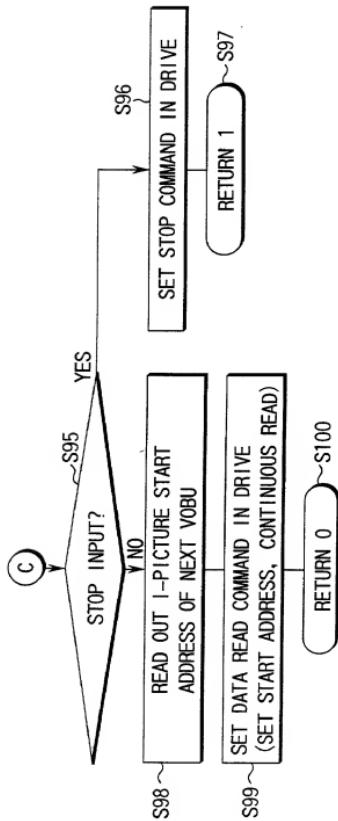


FIG. 21

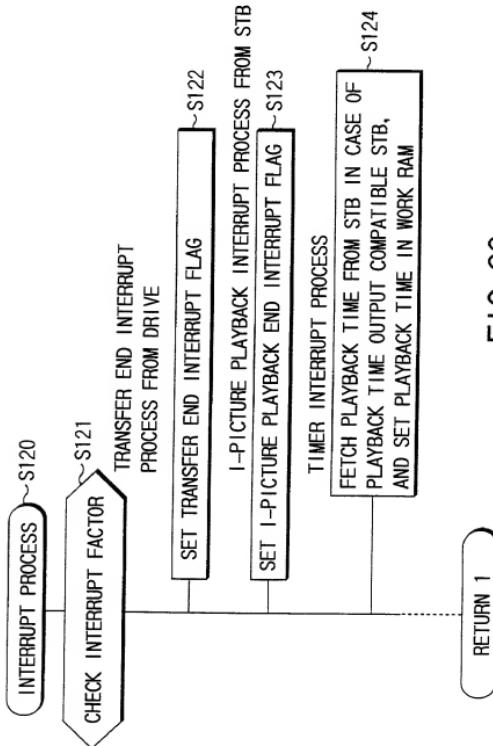


FIG. 22

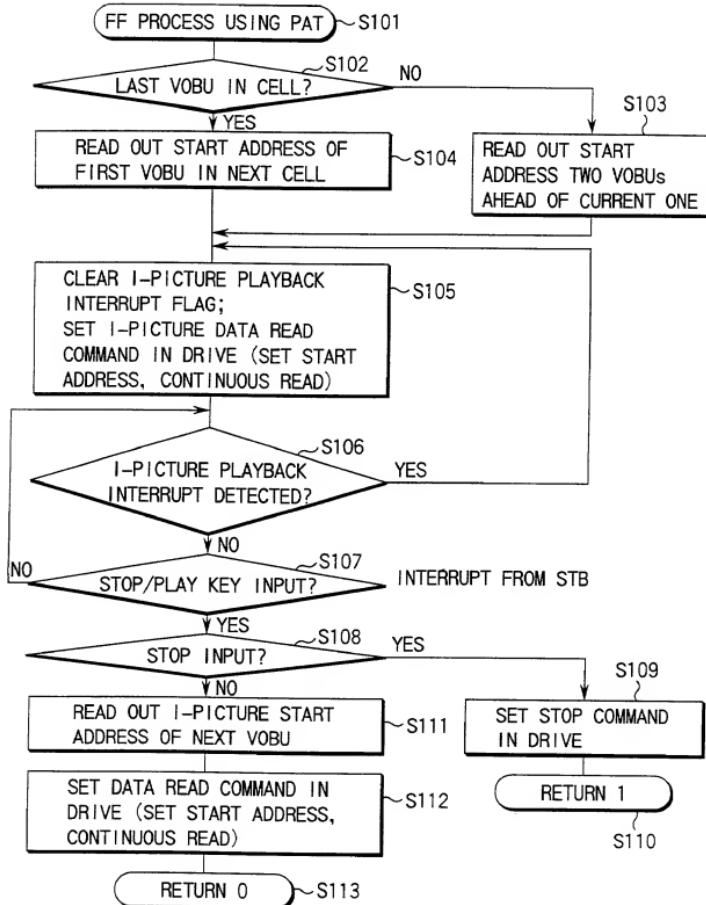


FIG. 23

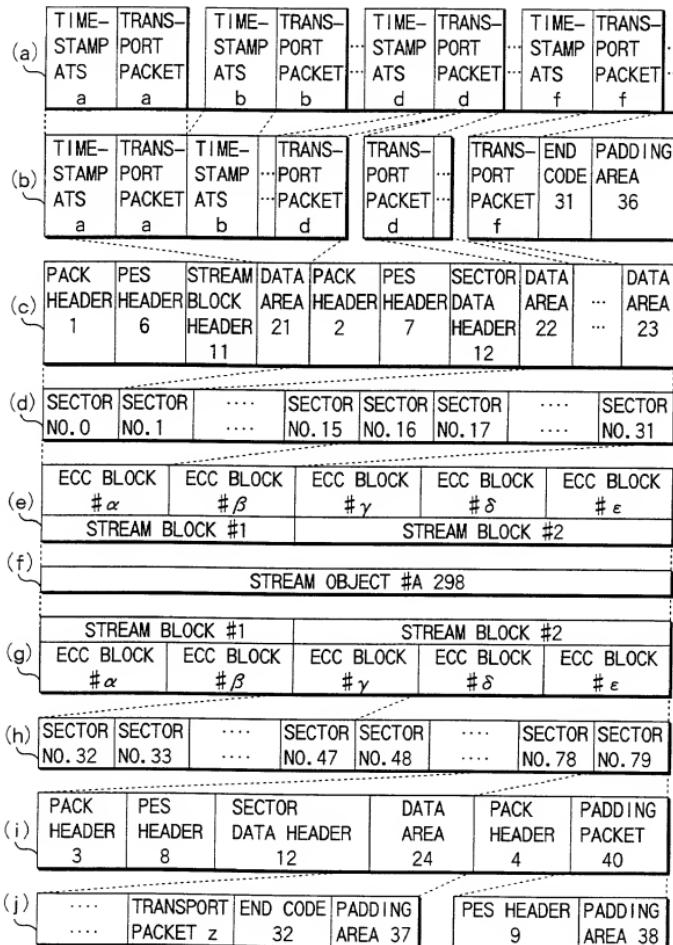


FIG. 24

(a) ~	STREAM BLOCK HEADER 11						
(b) ~	TRANSPORT PACKET INFORMATION 611						
		STREAM BLOCK INFORMATION 612				SECTOR DATA HEADER INFORMATION 613	
(c) ~	TRANSPORT PACKET INFORMATION 621	RECORD TIME 622	TRANSPORT ATTRIBUTION 623	STREAM BLOCK SIZE 624	STREAM BLOCK TIME DIFFERENCE 625	FIRST ACCESS POINT 626	TRANSPORT CONNECTION FLAG 627
(d) ~	NUMBER OF TRANSPORT PACKET 631		TRANSPORT PACKET MAPPING TABLE 632				
(e) ~	I-PICTURE MAPPING TABLE 641	B, P-PICTURE START POSITION MAPPING TABLE 642	VIDEO PACKET MAPPING TABLE 643	AUDIO PACKET MAPPING TABLE 644	PROGRAM SPECIFIC INFORMATION MAPPING TABLE 645		

FIG. 25

(a) ~	SECTOR DATA HEADER 12	
(b) ~	FIRST ACCESS POINT 651	TRANSPORT PACKET CONNECTION FLAG 652

FIG. 26

CONSTRAINTS ON MPEG SPECIFICATIONS FOR SOB

SYSTEM HEADER	SHALL NOT BE INCLUDED
SCR VALUE IN THE FIRST PACK OF A SOB	ANY VALUE
MPEG PROGRAM_END_CODE	SHALL NOT BE INCLUDED
STREAM_ID	SHALL BE EQUAL TO BFH (PRIVATE_STREAM_2) IN ALL PES PACKETS

FIG. 27

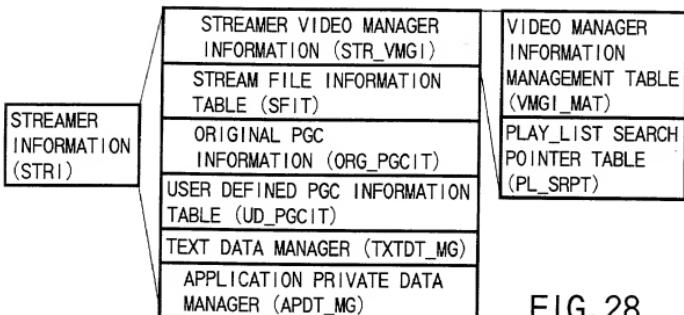


FIG. 28

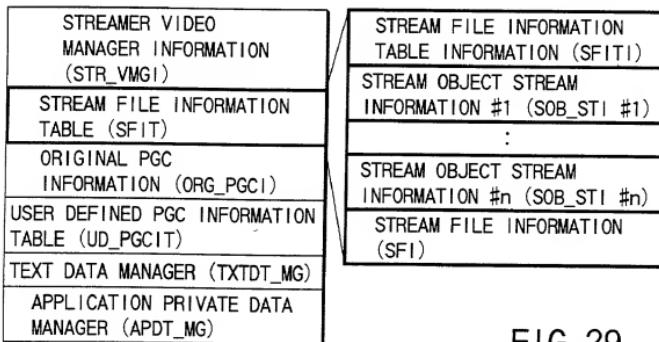


FIG. 29

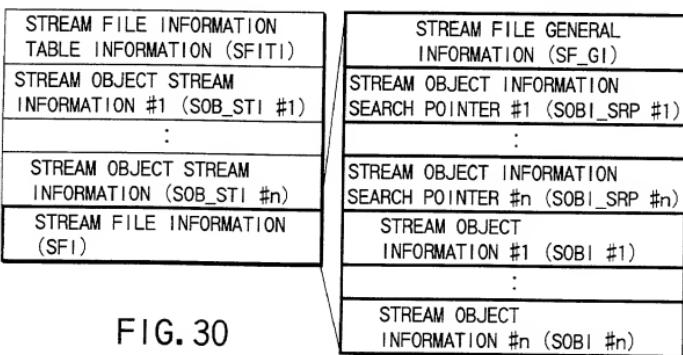


FIG. 30

STREAM FILE GENERAL INFORMATION (SF\_GI)

	CONTENTS	NUMBER OF BYTES
(1) SOBI_Ns	NUMBER OF SOBIs	2
(2) SOBU_SIZ	NUMBER OF SECTORS PER SOBU	2
(3) MTU_SHFT	MAPPING TIME UNIT SHIFT	1
(4) RESERVED	RESERVED	1
	TOTAL	6

FIG. 31

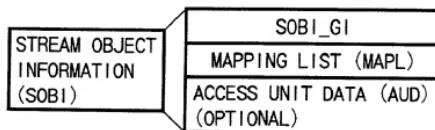


FIG. 32

STREAM OBJECT INFORMATION GENERAL INFORMATION (SOBI\_GI)

	CONTENTS	NUMBER OF BYTES
(1) SOB_TY	SOB TYPE	1
(2) SOB_REC_TM	SOB RECORDING TIME	5
(3) SOB_STI_N	SOB STREAM INFORMATION NUMBER	1
(4) AUD_FLAGS	ACCESS UNIT DATA FLAGS	1
(5) SOB_S_APAT	SOB START APAT	6
(6) SOB_E_APAT	SOB END APAT	6
(7) SOB_S_SOBU	FIRST SOBU OF THIS SOB	4
(8) MAPL_ENT_Ns	NUMBER OF MAPPING LIST ENTRIES	4
	TOTAL	28

FIG. 33

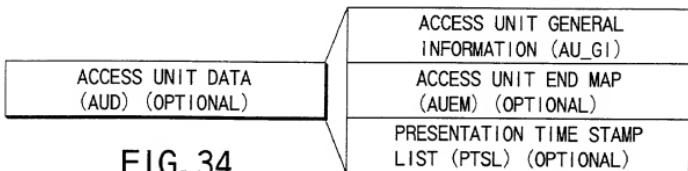


FIG. 34

ACCESS UNIT GENERAL INFORMATION (AU\_GI)

	CONTENTS	NUMBER OF BYTES
(1) AU_Ns	NUMBER OF ACCESS UNITS	4
(2) AUSM	ACCESS UNIT START MAP (MAP_ENT_Ns ELEMENTS)	(MAPL_ENT_Ns+7) div 8
TOTAL		(MAPL_ENT_Ns+7) div 8 + 4

FIG. 35

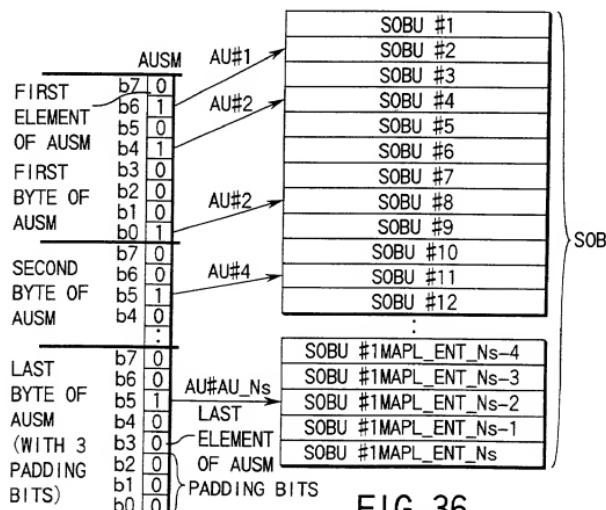


FIG. 36

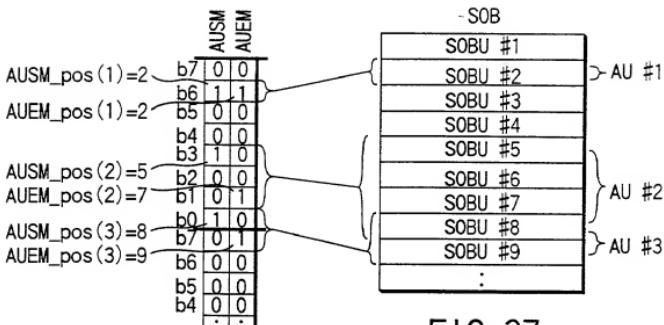
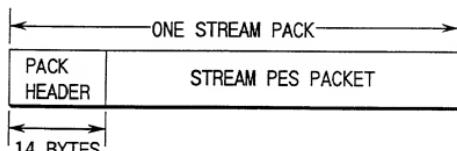


FIG. 37

FIG. 38



STRUCTURE OF THE STREAM DATA AREA WITHIN A STREAM PES PACKET  
 ONE STREAM PACK (2048B)

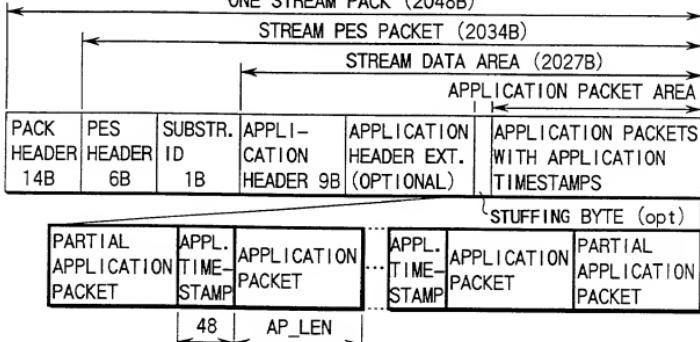


FIG. 39

APPLICATION HEADER

FIELD	NUMBER OF BITS	NUMBER OF BYTES	VALUE	COMMENT
(1) VERSION	8	1	01h	
(2) AP_Ns	8	1		
(3) FIRST_AP_OFFSET	16	2		
(4) EXTENSION_HEADER_INFO	2	1	00b, 10b, 11b	
(5) RESERVED FOR CCI_ESC	1		0b OR 1b	
(6) RESERVED	5		11111b	
(7) SERVICE_ID	16	2		
(8) MAX_BR_LOG2	8	1		
(9) SMO_BS_LOG2	8	1		
	TOTAL	9		

FIG. 40